

Data File : VW008218.D
Acq On : 12 Jan 2019 04:02
Operator : SY/VA
Sample : K1124-01RE
Misc : 6.57G/5ML/MSVOA_W/SOIL
ALS Vial : 33 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
ER-SOIL

Quant Time: Jan 12 04:37:58 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W010819S.M
Quant Title : SW846 8260
QLast Update : Wed Jan 09 04:40:48 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	92378	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	165048	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	143458	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	64659	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.31	65	53339	51.37	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.74%	
35) Dibromofluoromethane	7.88	113	52140	54.16	ug/l	0.00
Spiked Amount	50.000		Recovery	=	108.32%	
50) Toluene-d8	10.32	98	208302	51.57	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.14%	
62) 4-Bromofluorobenzene	12.62	95	69419	47.94	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.88%	

Target Compounds

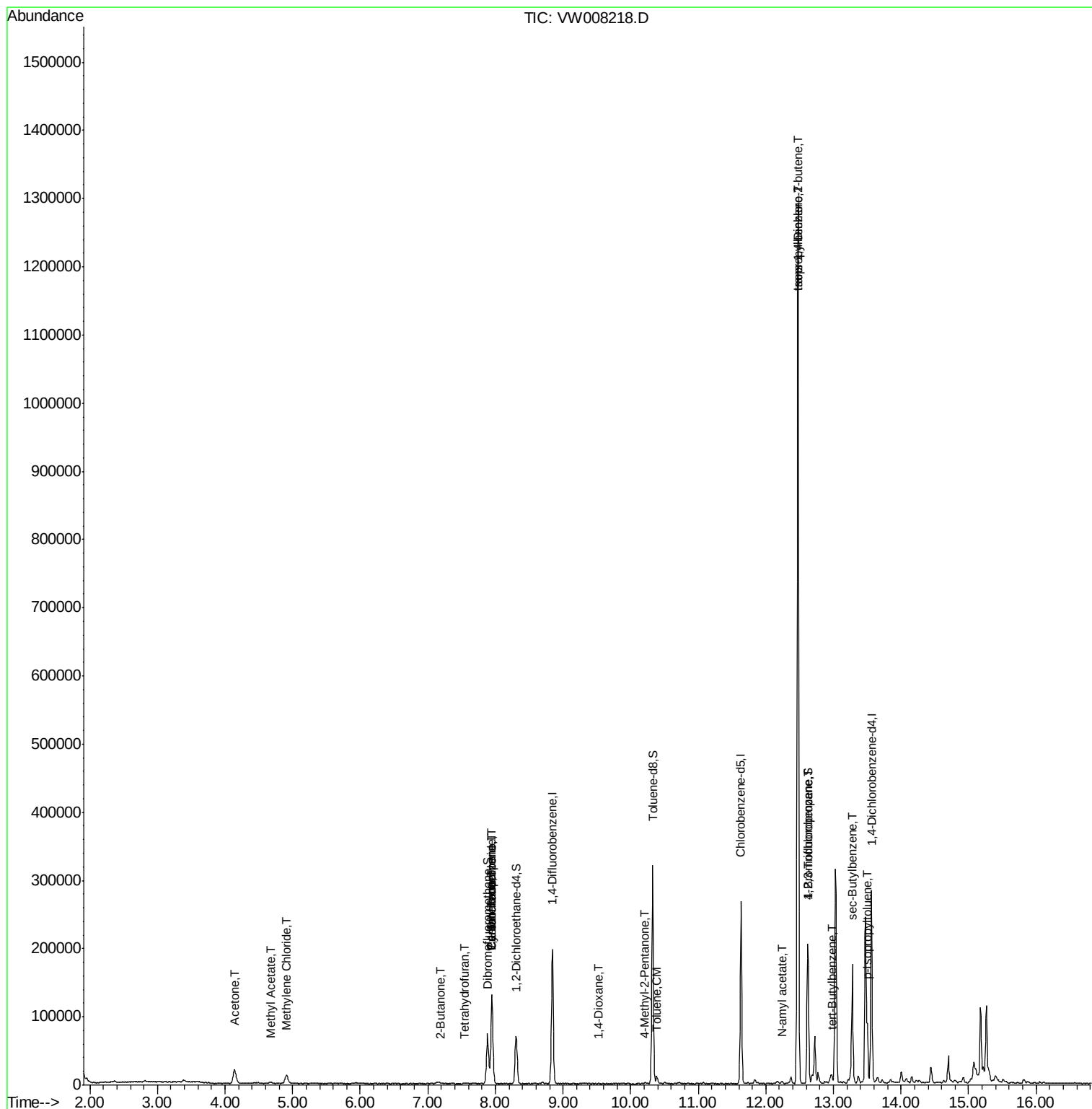
						Qvalue
11) Tert butyl alcohol	5.25	59	30	Below Cal	#	100
13) Acrolein	3.87	56	27	Below Cal	#	1
16) Acetone	4.14	43	42019	222.856	ug/l	97
18) Methyl Acetate	4.68	43	2980	4.541	ug/l #	83
20) Methylene Chloride	4.91	84	9728	5.209	ug/l #	80
25) 2-Butanone	7.20	43	1511	5.231	ug/l #	78
29) Tetrahydrofuran	7.54	42	446	2.311	ug/l #	64
31) Cyclohexane	7.95	56	2466	1.129	ug/l #	25
36) 1,1-Dichloropropene	7.95	75	7656	4.503	ug/l #	51
38) Carbon Tetrachloride	7.95	117	9854	6.332	ug/l #	16
49) 1,4-Dioxane	9.52	88	27	2.990	ug/l #	1
51) 4-Methyl-2-Pentanone	10.21	43	1405	2.131	ug/l	100
52) Toluene	10.38	92	4389	1.490	ug/l	86
73) Isopropylbenzene	12.48	105	50268	9.902	ug/l #	62
74) N-amyl acetate	12.24	43	2329	2.072	ug/l #	49
76) 1,2,3-Trichloropropane	12.62	75	33958	57.611	ug/l #	1
81) trans-1,4-Dichloro-2-buten	12.47	75	1670	6.598	ug/l #	1
83) tert-Butylbenzene	12.98	119	4361	1.182	ug/l	88
85) sec-Butylbenzene	13.28	105	9337	1.727	ug/l	92
86) p-Isopropyltoluene	13.50	119	46799	10.025	ug/l #	75

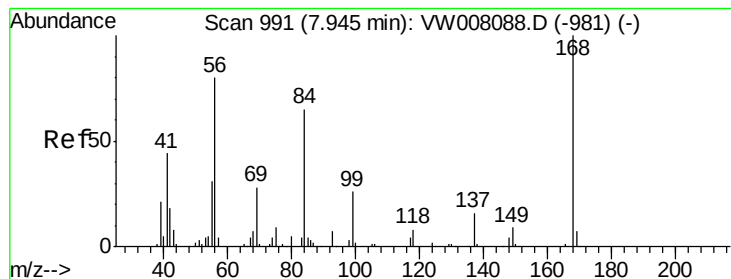
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 991

Delta R.T. 0.00 min

Lab File: VW008218.D

Acq: 12 Jan 2019 04:02

Instrument :

MSVOA_W

ClientSampleId :

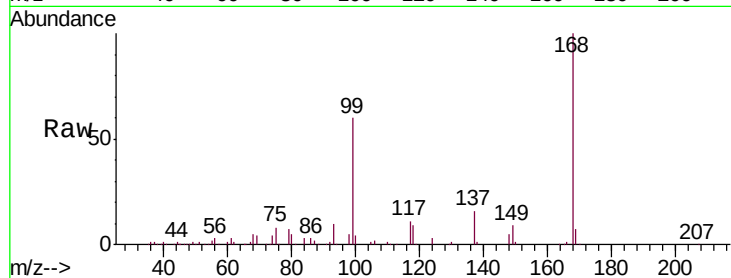
ER-SOIL

Tgt Ion:168 Resp: 92378

Ion Ratio Lower Upper

168 100

99 60.1 52.6 78.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

7.95

40000

30000

20000

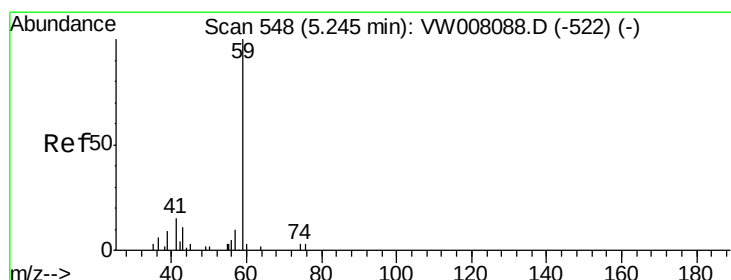
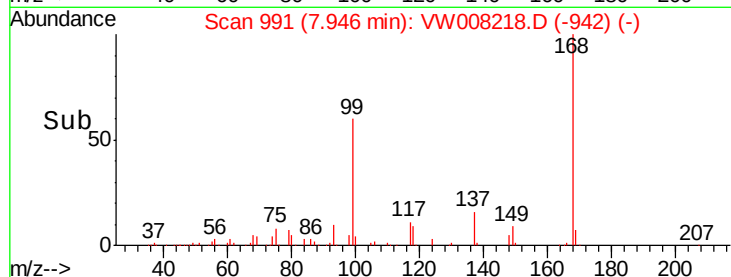
10000

0

7.90

8.00

Time-->



#11

Tert butyl alcohol

Concen: Below Cal

RT: 5.25 min Scan# 549

Delta R.T. 0.01 min

Lab File: VW008218.D

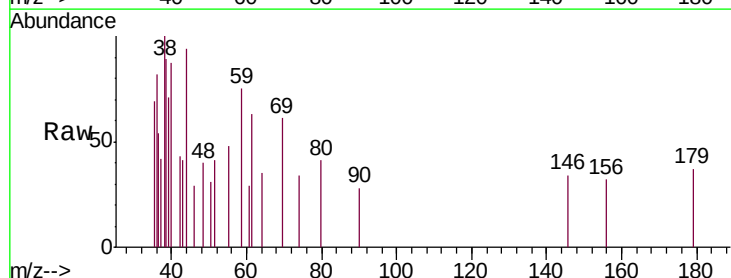
Acq: 12 Jan 2019 04:02

Tgt Ion: 59 Resp: 30

Ion Ratio Lower Upper

59 100

57 223.3 0.0 0.0#



Abundance Ion 59.00 (58.70 to 59.70): VW

Ion 57.00 (56.70 to 57.70): VW

5.25

150

100

50

0

5.24

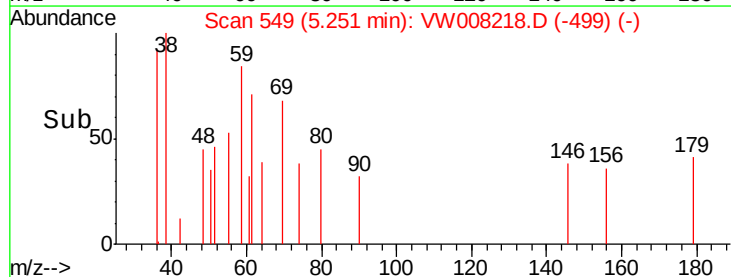
5.25

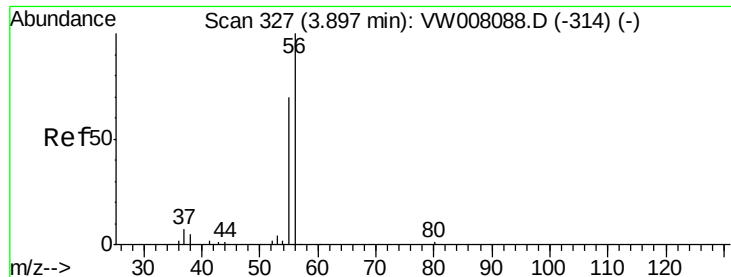
5.25

5.25

5.26

Time-->





#13

Acrolein

Concen: Below Cal

RT: 3.87 min Scan# 323

Delta R.T. -0.02 min

Lab File: VW008218.D

Acq: 12 Jan 2019 04:02

Instrument :

MSVOA_W

ClientSampled :

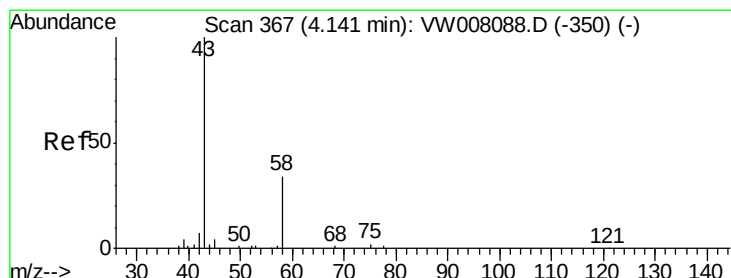
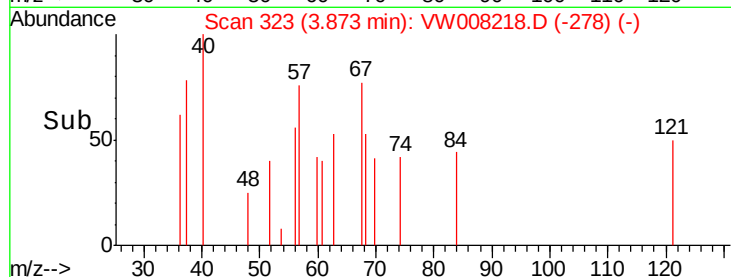
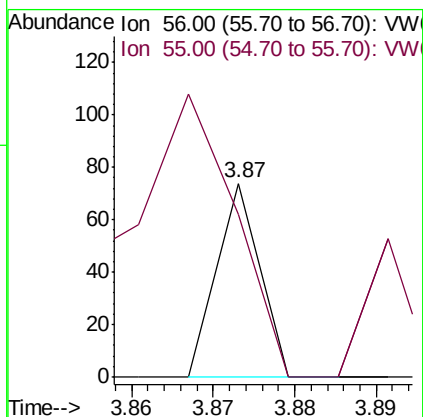
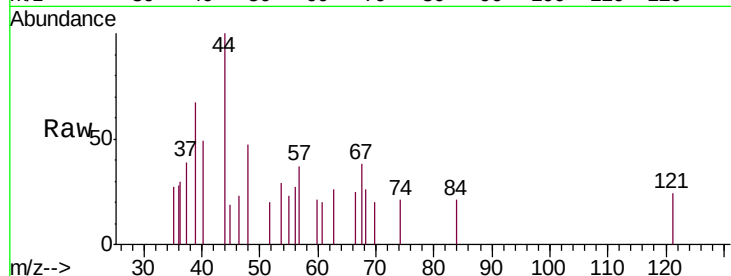
ER-SOIL

Tgt Ion: 56 Resp: 27

Ion Ratio Lower Upper

56 100

55 307.4 56.6 84.8#



#16

Acetone

Concen: 222.856 ug/l

RT: 4.14 min Scan# 367

Delta R.T. 0.00 min

Lab File: VW008218.D

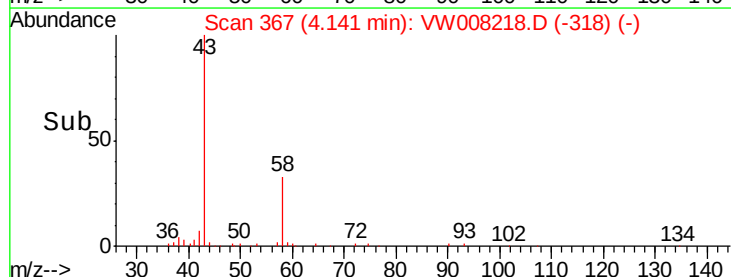
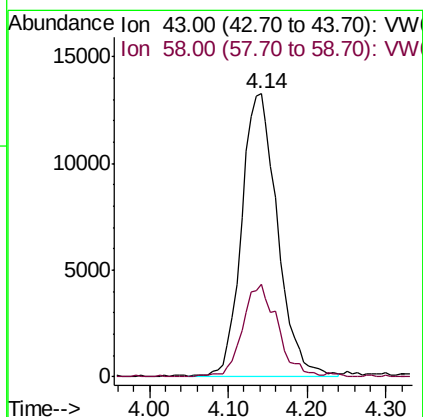
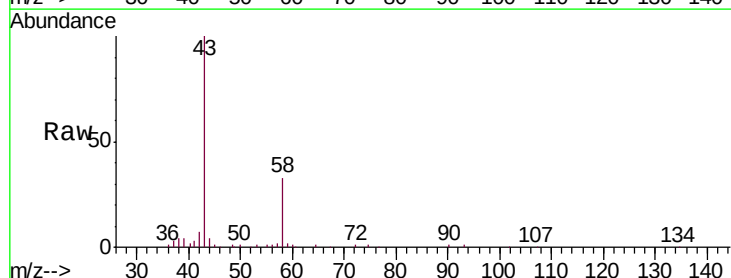
Acq: 12 Jan 2019 04:02

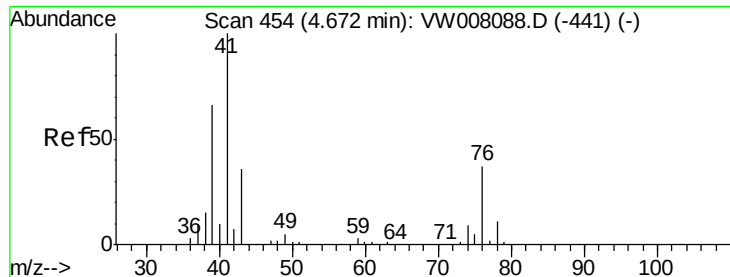
Tgt Ion: 43 Resp: 42019

Ion Ratio Lower Upper

43 100

58 32.5 27.5 41.3

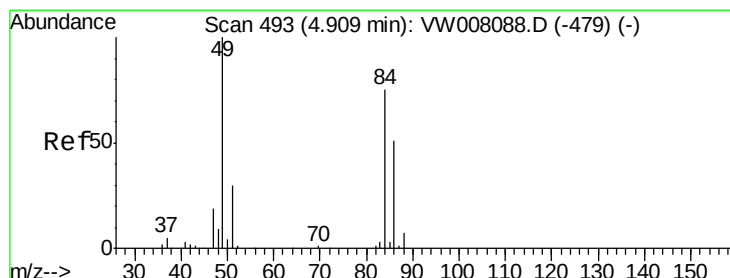
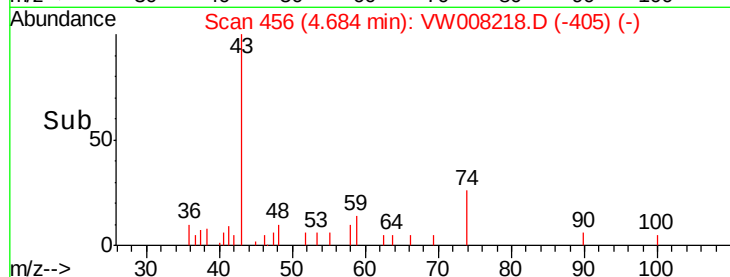
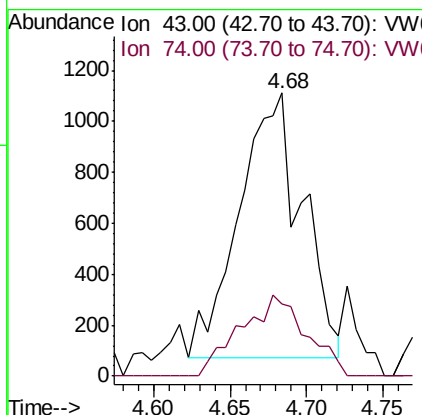
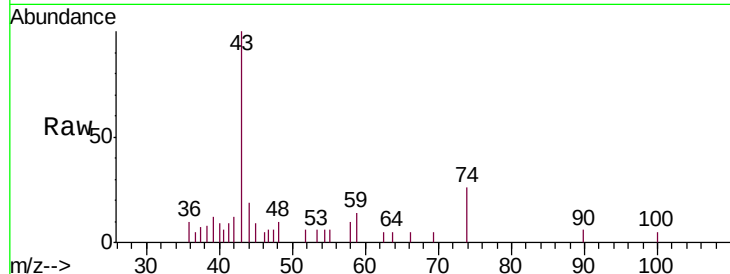




#18
Methyl Acetate
Concen: 4.541 ug/l
RT: 4.68 min Scan# 456
Delta R.T. 0.01 min
Lab File: VW008218.D
Acq: 12 Jan 2019 04:02

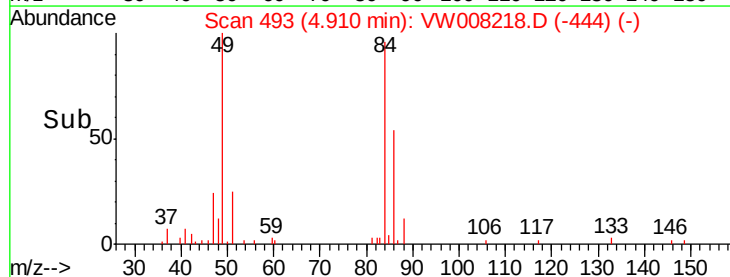
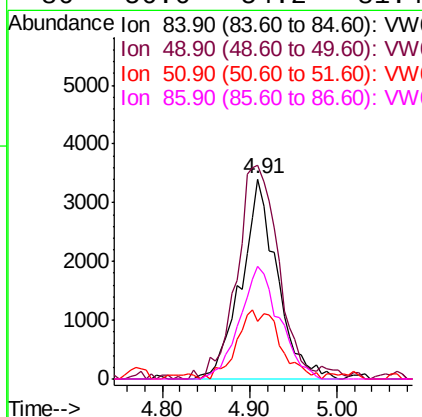
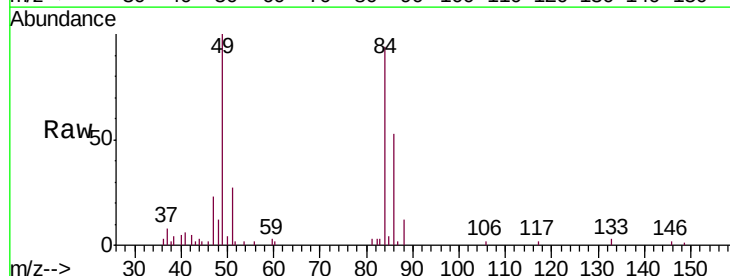
Instrument :
MSVOA_W
ClientSampled :
ER-SOIL

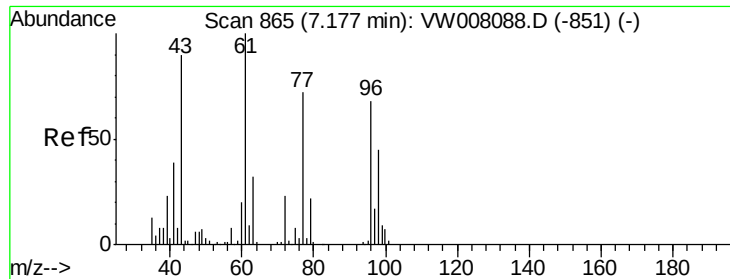
Tgt Ion: 43 Resp: 2980
Ion Ratio Lower Upper
43 100
74 31.9 19.0 28.4#



#20
Methylene Chloride
Concen: 5.209 ug/l
RT: 4.91 min Scan# 493
Delta R.T. 0.00 min
Lab File: VW008218.D
Acq: 12 Jan 2019 04:02

Tgt Ion: 84 Resp: 9728
Ion Ratio Lower Upper
84 100
49 106.8 107.1 160.7#
51 26.9 32.4 48.6#
86 56.6 54.2 81.4





#25

2-Butanone

Concen: 5.231 ug/l

RT: 7.20 min Scan# 868

Delta R.T. 0.02 min

Lab File: VW008218.D

Acq: 12 Jan 2019 04:02

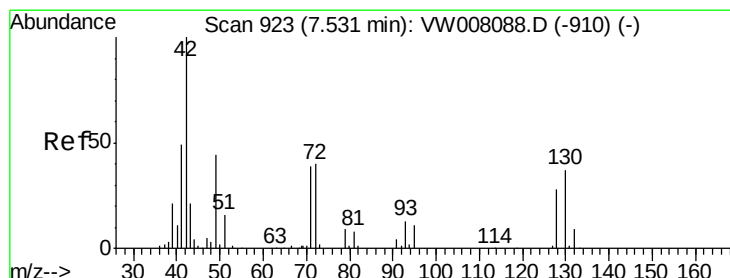
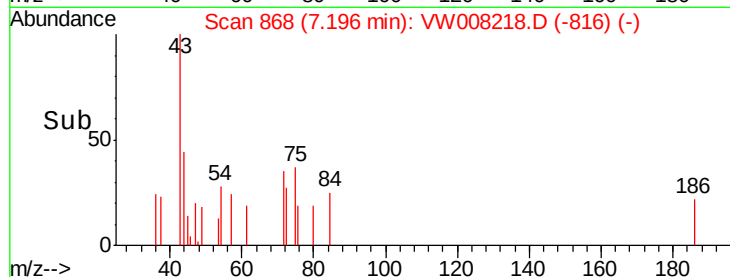
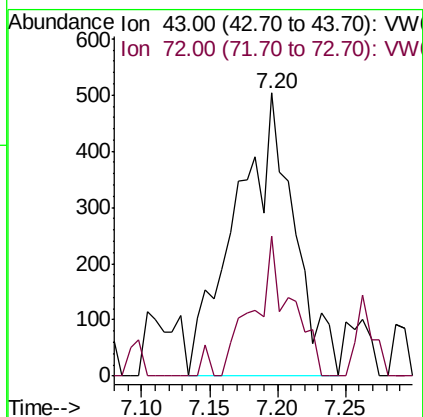
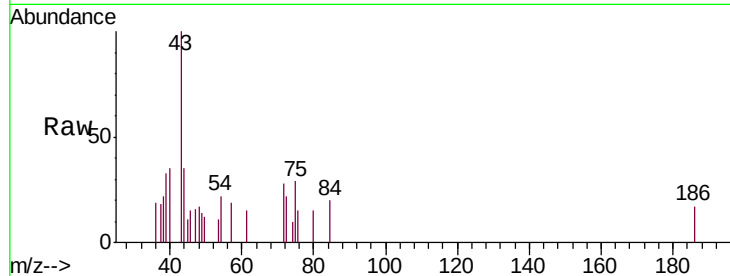
Instrument :
MSVOA_W
ClientSampled :
ER-SOIL

Tgt Ion: 43 Resp: 1511

Ion Ratio Lower Upper

43 100

72 36.6 20.5 30.7#



#29

Tetrahydrofuran

Concen: 2.311 ug/l

RT: 7.54 min Scan# 925

Delta R.T. 0.01 min

Lab File: VW008218.D

Acq: 12 Jan 2019 04:02

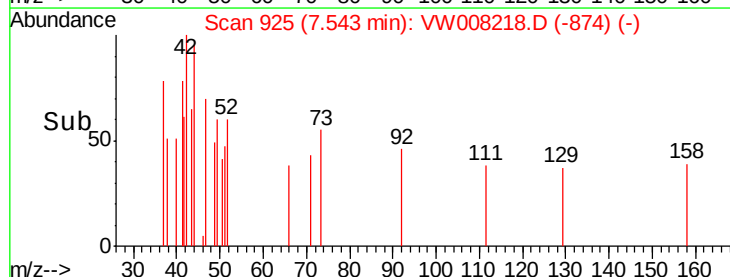
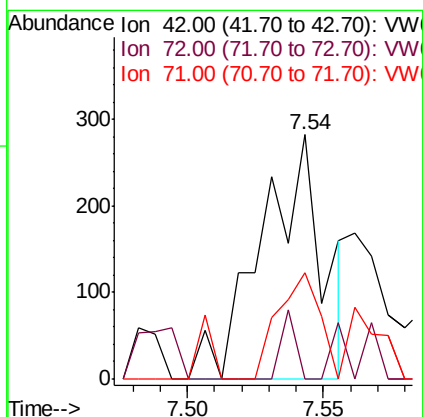
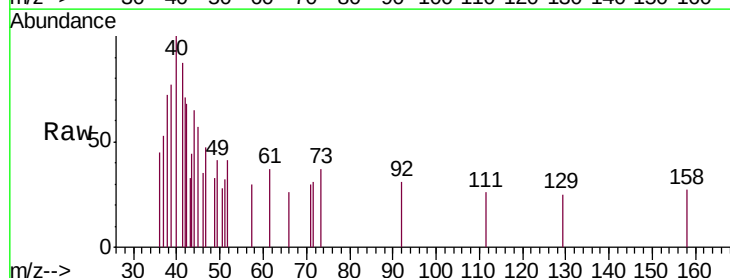
Tgt Ion: 42 Resp: 446

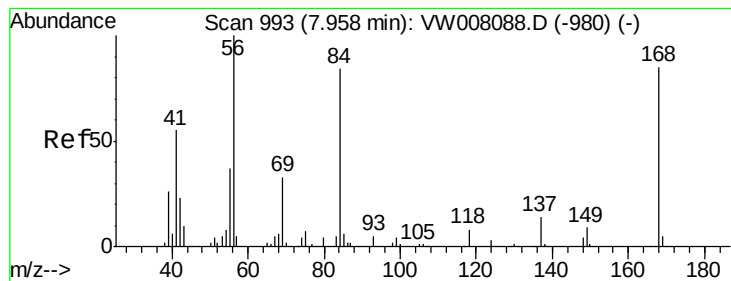
Ion Ratio Lower Upper

42 100

72 6.5 32.4 48.6#

71 29.4 31.3 46.9#





#31

Cyclohexane

Concen: 1.129 ug/l

RT: 7.95 min Scan# 992

Delta R.T. -0.01 min

Lab File: VW008218.D

Acq: 12 Jan 2019 04:02

Instrument :

MSVOA_W

ClientSampled :

ER-SOIL

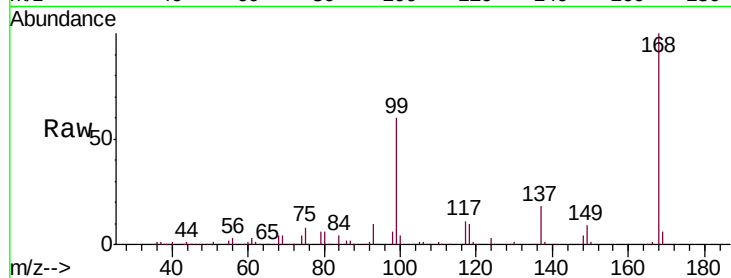
Tgt Ion: 56 Resp: 2466

Ion Ratio Lower Upper

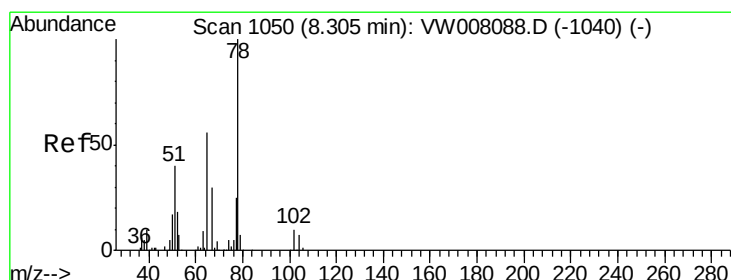
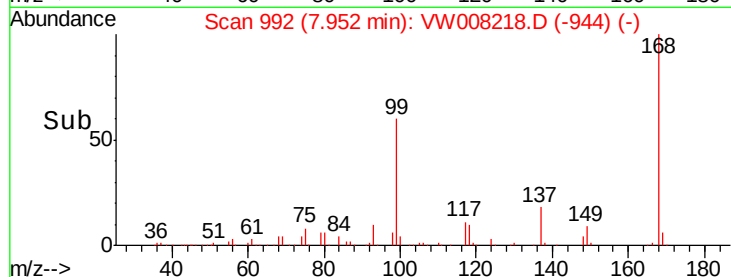
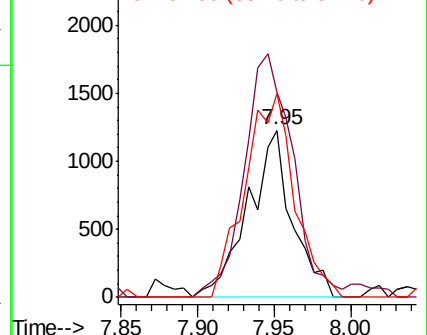
56 100

69 122.9 26.2 39.4#

84 122.1 67.4 101.2#



Abundance Ion 56.00 (55.70 to 56.70): VW
Ion 69.00 (68.70 to 69.70): VW
Ion 84.00 (83.70 to 84.70): VW



#33

1,2-Dichloroethane-d4

Concen: 51.374 ug/l

RT: 8.31 min Scan# 1050

Delta R.T. 0.00 min

Lab File: VW008218.D

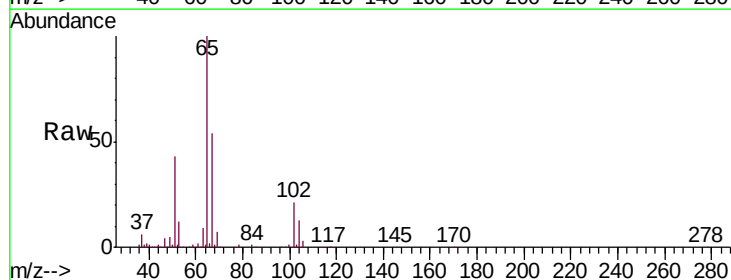
Acq: 12 Jan 2019 04:02

Tgt Ion: 65 Resp: 53339

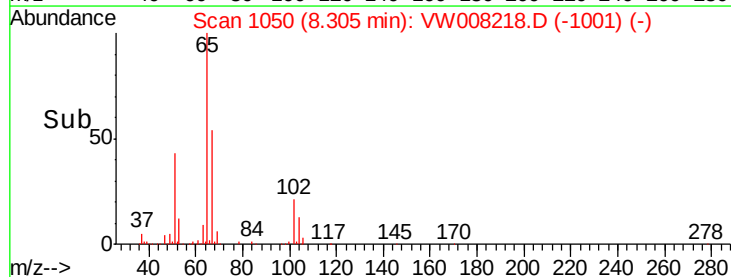
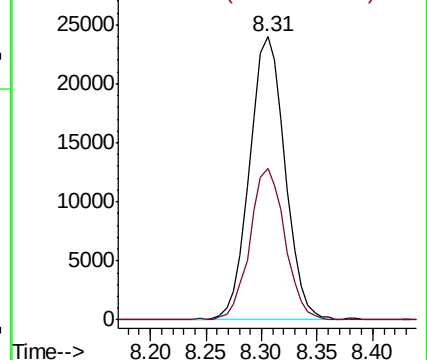
Ion Ratio Lower Upper

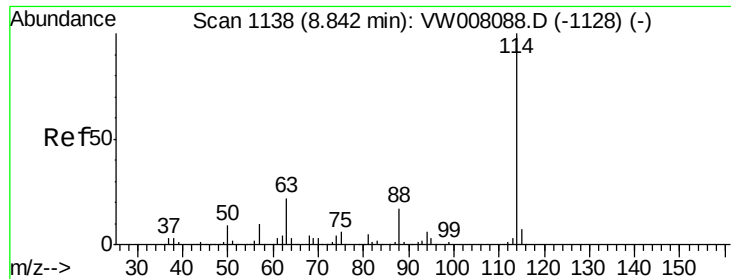
65 100

67 52.7 0.0 106.8



Abundance Ion 64.90 (64.60 to 65.60): VW
Ion 66.90 (66.60 to 67.60): VW





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.84 min Scan# 1138

Delta R.T. 0.00 min

Lab File: VW008218.D

Acq: 12 Jan 2019 04:02

Instrument :

MSVOA_W

ClientSampled :

ER-SOIL

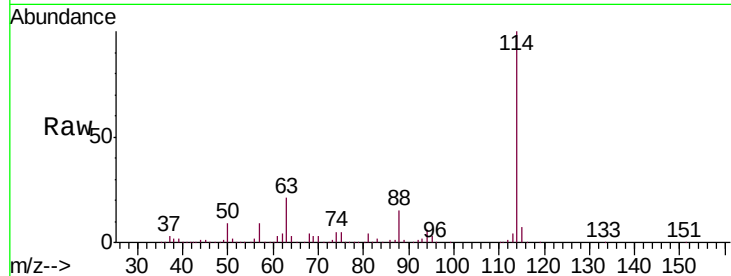
Tgt Ion:114 Resp: 165048

Ion Ratio Lower Upper

114 100

63 21.3 0.0 43.4

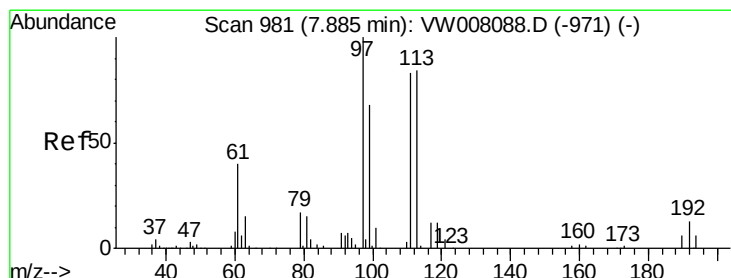
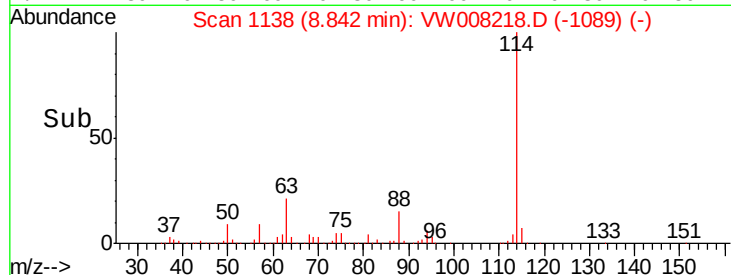
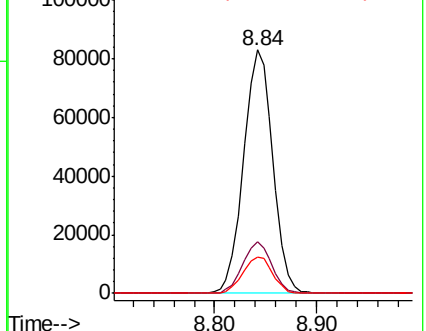
88 15.0 0.0 33.4



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VW

Ion 87.90 (87.60 to 88.60): VW



#35

Dibromofluoromethane

Concen: 54.165 ug/l

RT: 7.88 min Scan# 981

Delta R.T. 0.00 min

Lab File: VW008218.D

Acq: 12 Jan 2019 04:02

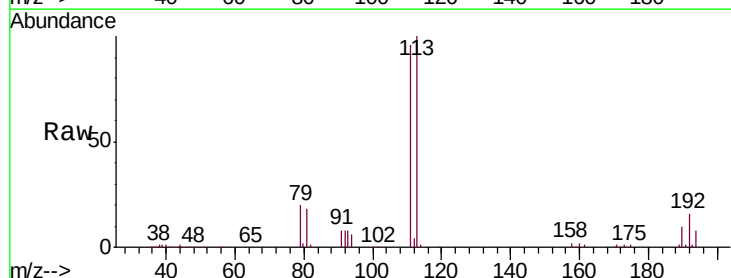
Tgt Ion:113 Resp: 52140

Ion Ratio Lower Upper

113 100

111 103.2 81.8 122.8

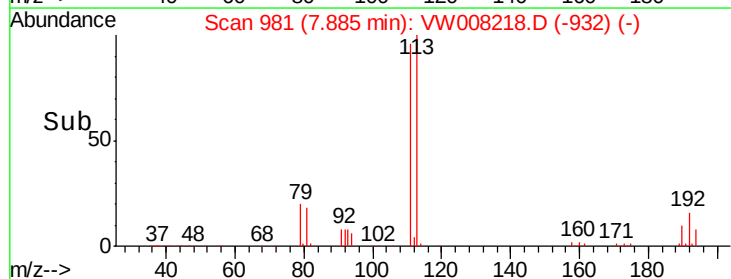
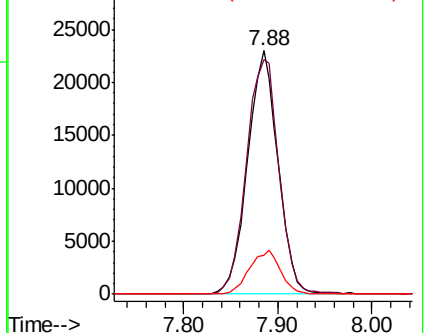
192 18.2 12.8 19.2

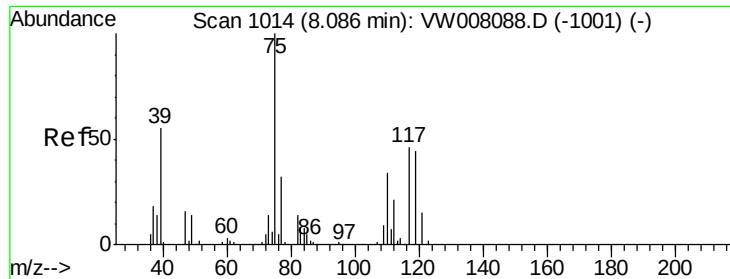


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

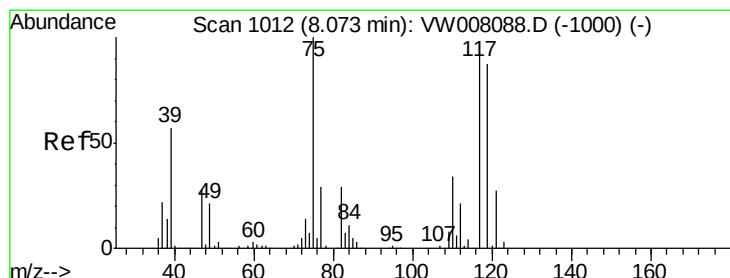
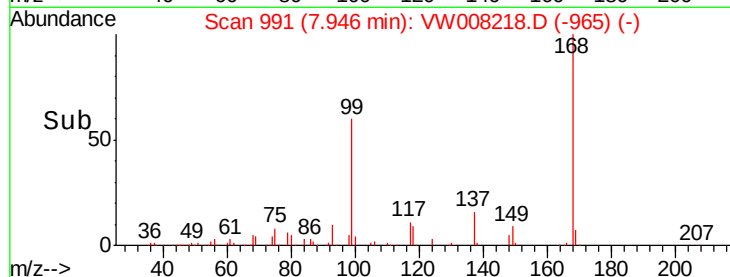
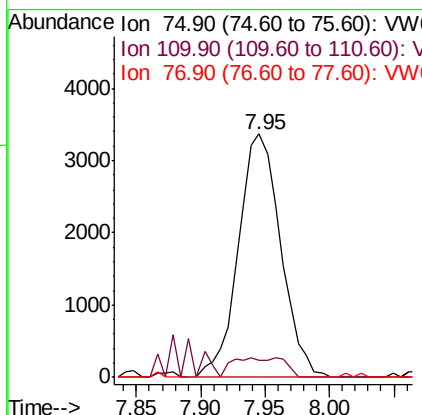
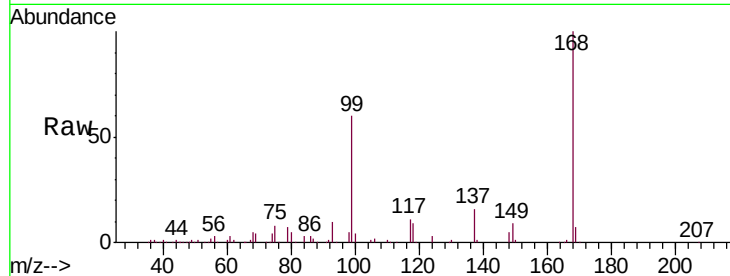




#36
 1,1-Dichloropropene
 Concen: 4.503 ug/l
 RT: 7.95 min Scan# 991
 Delta R.T. -0.14 min
 Lab File: VW008218.D
 Acq: 12 Jan 2019 04:02

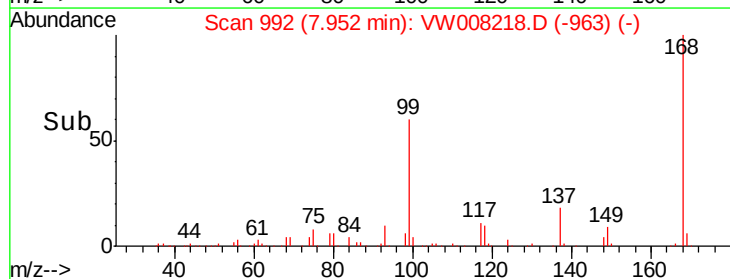
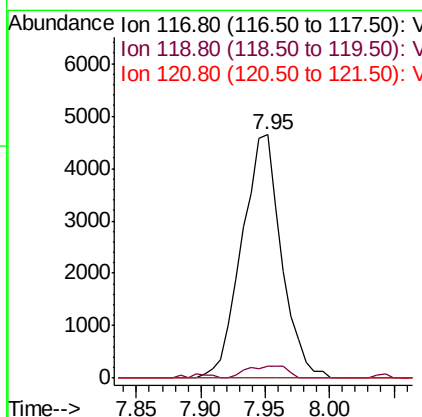
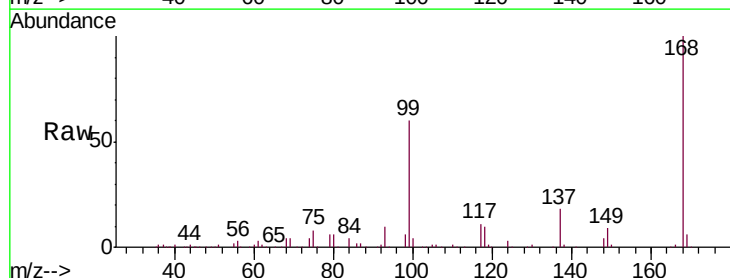
Instrument :
 MSVOA_W
 ClientSampleId :
 ER-SOIL

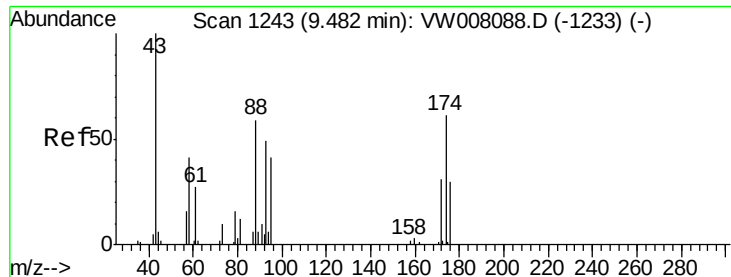
Tgt Ion: 75 Resp: 7656
 Ion Ratio Lower Upper
 75 100
 110 10.1 17.1 51.3#
 77 0.0 25.5 38.3#



#38
 Carbon Tetrachloride
 Concen: 6.332 ug/l
 RT: 7.95 min Scan# 992
 Delta R.T. -0.12 min
 Lab File: VW008218.D
 Acq: 12 Jan 2019 04:02

Tgt Ion: 117 Resp: 9854
 Ion Ratio Lower Upper
 117 100
 119 5.0 75.8 113.8#
 121 0.0 23.7 35.5#





#49

1,4-Dioxane

Concen: 2.990 ug/l

RT: 9.52 min Scan# 1250

Delta R.T. 0.04 min

Lab File: VW008218.D

Acq: 12 Jan 2019 04:02

Instrument :

MSVOA_W

ClientSampleId :

ER-SOIL

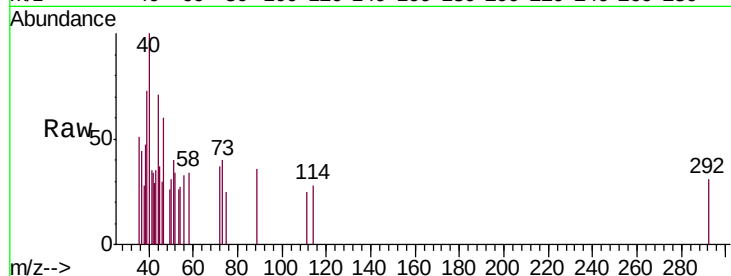
Tgt Ion: 88 Resp: 27

Ion Ratio Lower Upper

88 100

43 1063.0 0.0 0.0#

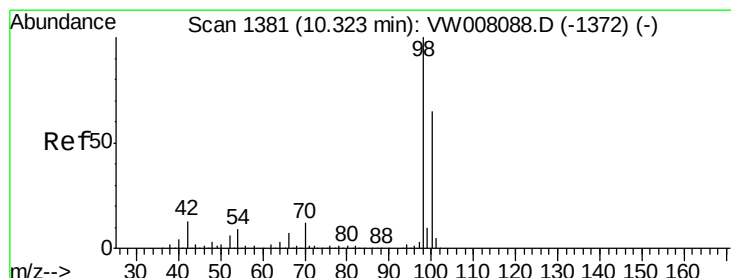
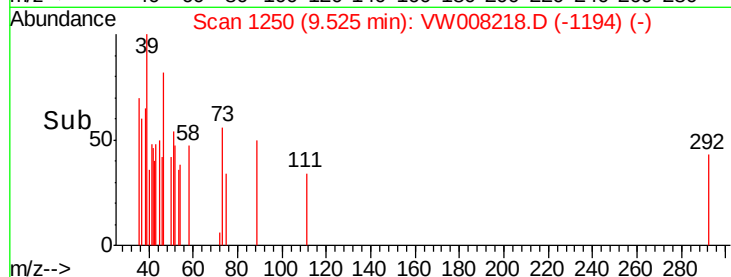
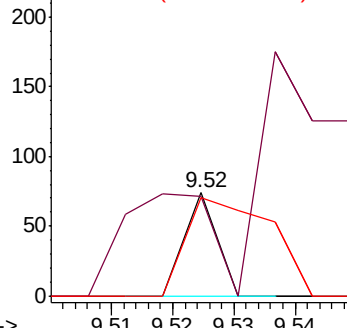
58 248.1 61.7 92.5#



Abundance Ion 88.00 (87.70 to 88.70): VW

Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW



#50

Toluene-d8

Concen: 51.566 ug/l

RT: 10.32 min Scan# 1381

Delta R.T. 0.00 min

Lab File: VW008218.D

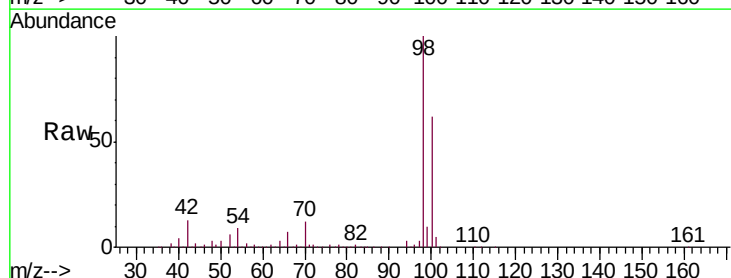
Acq: 12 Jan 2019 04:02

Tgt Ion: 98 Resp: 208302

Ion Ratio Lower Upper

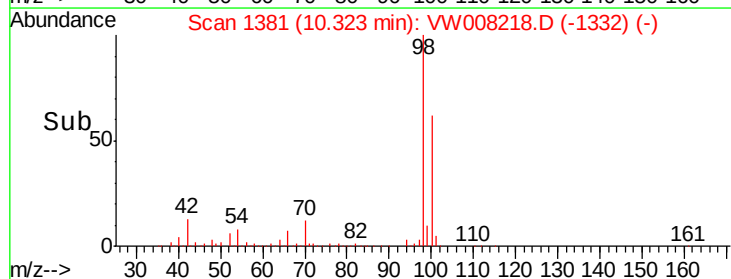
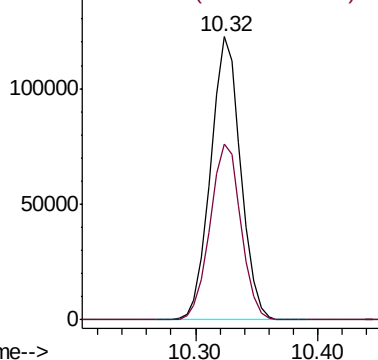
98 100

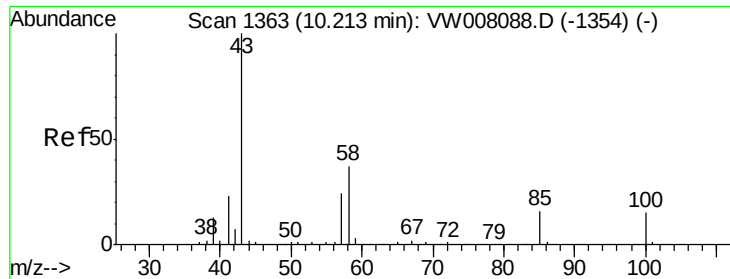
100 64.0 51.7 77.5



Abundance Ion 98.00 (97.70 to 98.70): VW

Ion 100.00 (99.70 to 100.70): VW





#51

4-Methyl-2-Pentanone

Concen: 2.131 ug/l

RT: 10.21 min Scan# 1362

Delta R.T. -0.01 min

Lab File: VW008218.D

Acq: 12 Jan 2019 04:02

Instrument :

MSVOA_W

ClientSampleId :

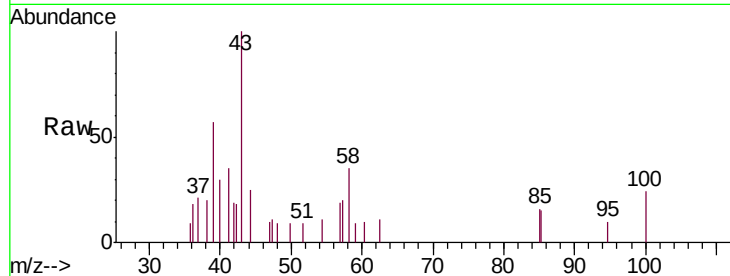
ER-SOIL

Tgt Ion: 43 Resp: 1405

Ion Ratio Lower Upper

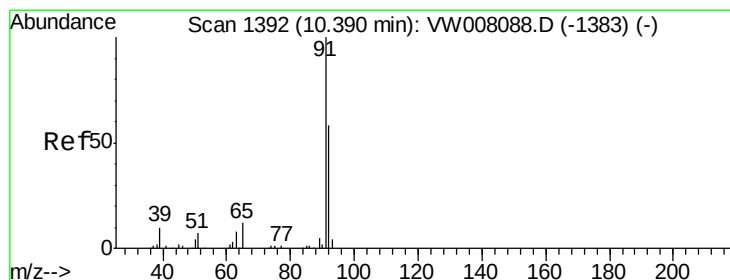
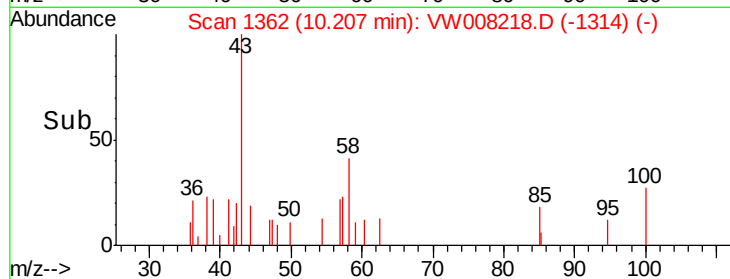
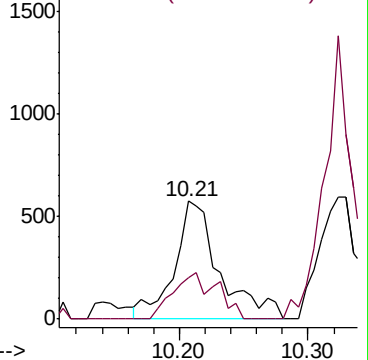
43 100

58 38.4 30.6 46.0



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW



#52

Toluene

Concen: 1.490 ug/l

RT: 10.38 min Scan# 1391

Delta R.T. -0.01 min

Lab File: VW008218.D

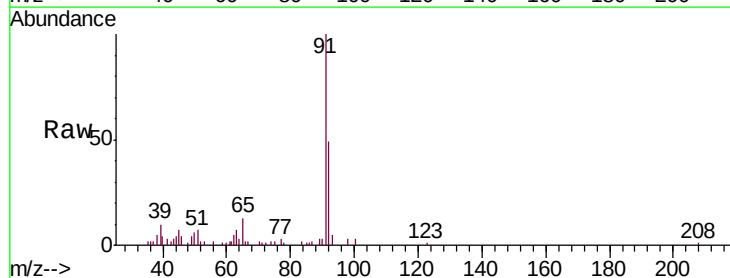
Acq: 12 Jan 2019 04:02

Tgt Ion: 92 Resp: 4389

Ion Ratio Lower Upper

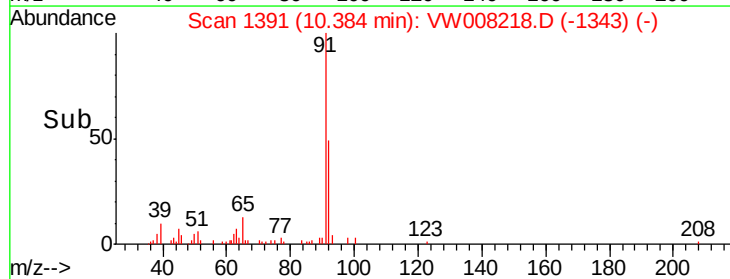
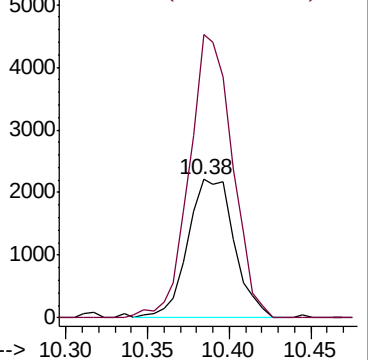
92 100

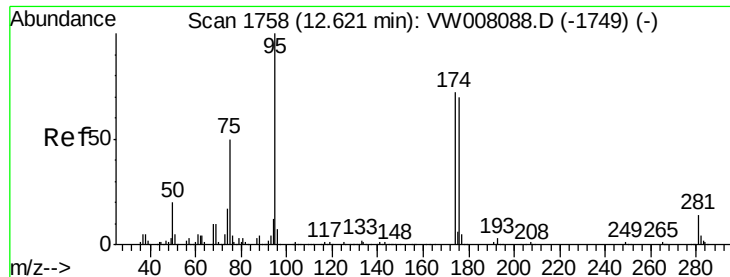
91 190.1 137.0 205.4



Abundance Ion 92.00 (91.70 to 92.70): VW

Ion 91.00 (90.70 to 91.70): VW





#62

4-Bromofluorobenzene

Concen: 47.936 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. 0.00 min

Lab File: VW008218.D

Acq: 12 Jan 2019 04:02

Instrument :

MSVOA_W

ClientSampled :

ER-SOIL

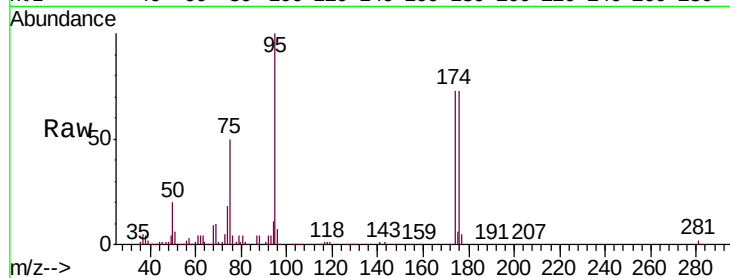
Tgt Ion: 95 Resp: 69419

Ion Ratio Lower Upper

95 100

174 74.6 0.0 143.0

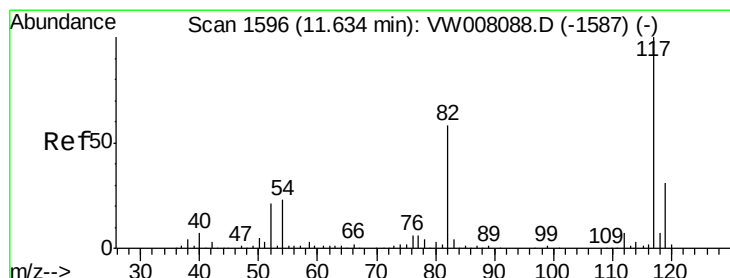
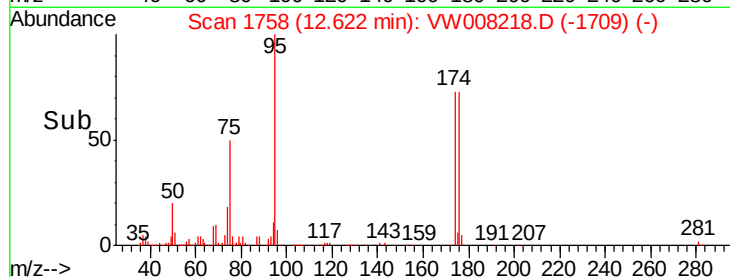
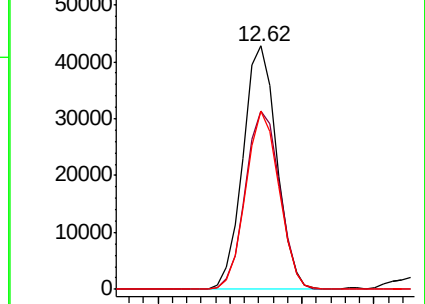
176 72.1 0.0 140.2



Abundance Ion 94.90 (94.60 to 95.60): VW

Ion 173.80 (173.50 to 174.50): VW

Ion 175.80 (175.50 to 176.50): VW



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.63 min Scan# 1596

Delta R.T. 0.00 min

Lab File: VW008218.D

Acq: 12 Jan 2019 04:02

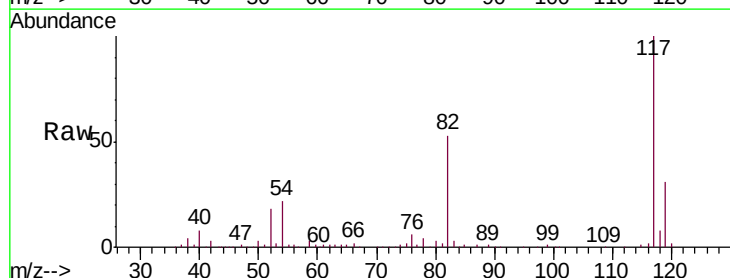
Tgt Ion: 117 Resp: 143458

Ion Ratio Lower Upper

117 100

82 53.4 46.4 69.6

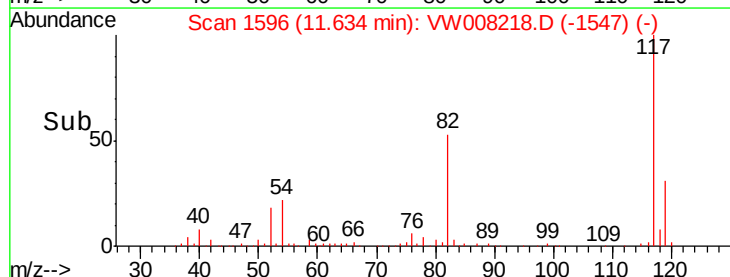
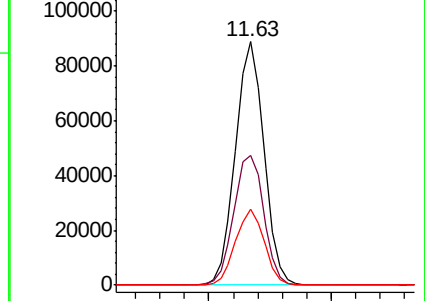
119 31.2 24.7 37.1

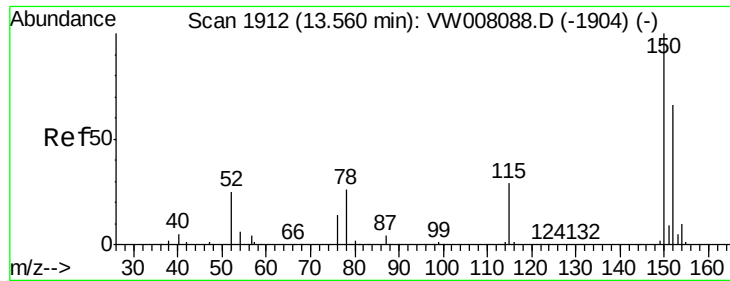


Abundance Ion 116.90 (116.60 to 117.60): VW

Ion 82.00 (81.70 to 82.70): VW

Ion 118.90 (118.60 to 119.60): VW

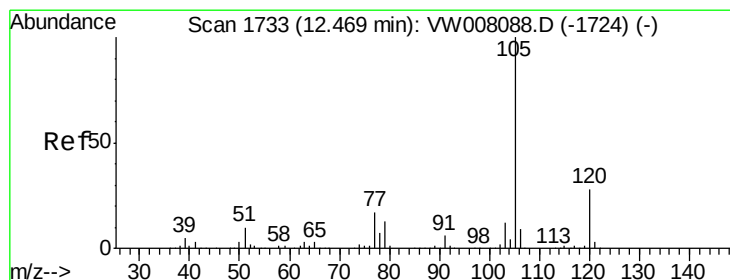
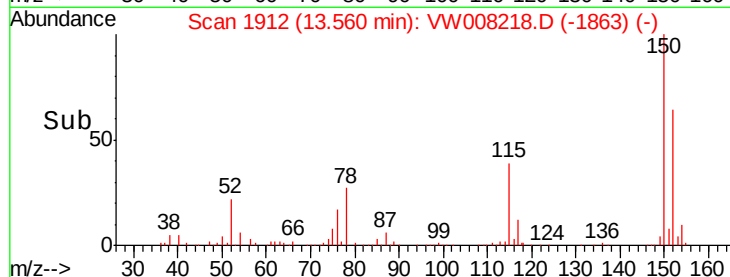
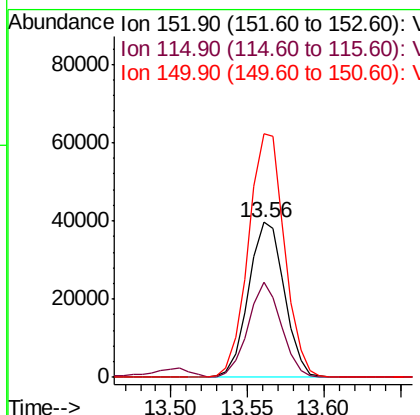
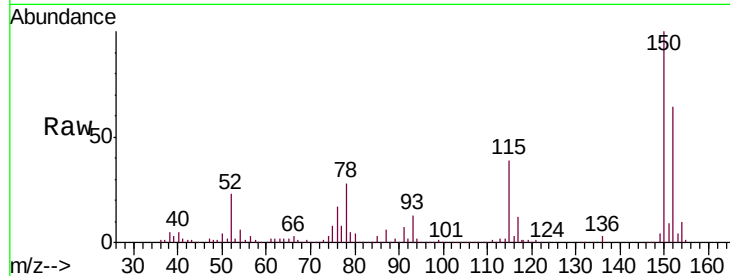




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.56 min Scan# 1912
 Delta R.T. 0.00 min
 Lab File: VW008218.D
 Acq: 12 Jan 2019 04:02

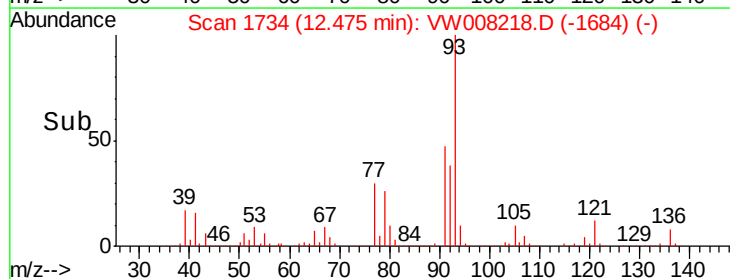
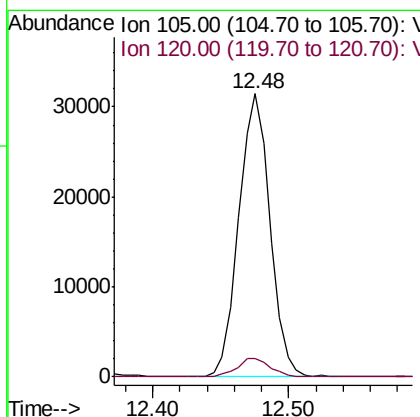
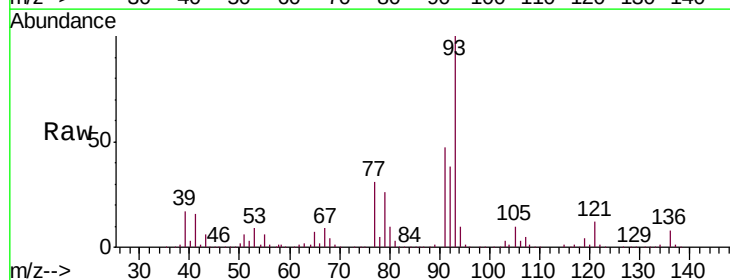
Instrument :
 MSVOA_W
 ClientSampled :
 ER-SOIL

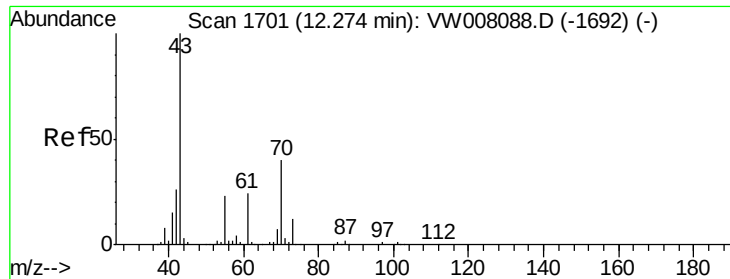
Tgt Ion:152 Resp: 64659
 Ion Ratio Lower Upper
 152 100
 115 57.3 30.8 92.4
 150 157.9 0.0 350.2



#73
 Isopropylbenzene
 Concen: 9.902 ug/l
 RT: 12.48 min Scan# 1734
 Delta R.T. 0.01 min
 Lab File: VW008218.D
 Acq: 12 Jan 2019 04:02

Tgt Ion:105 Resp: 50268
 Ion Ratio Lower Upper
 105 100
 120 7.2 13.6 40.8#

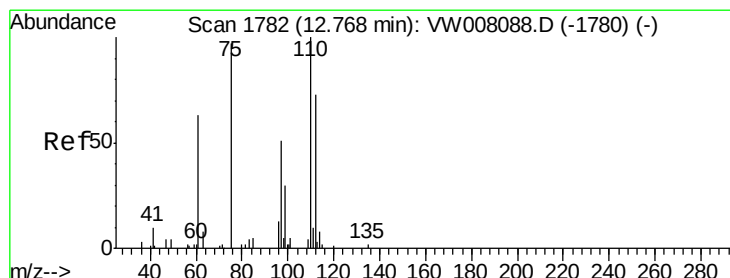
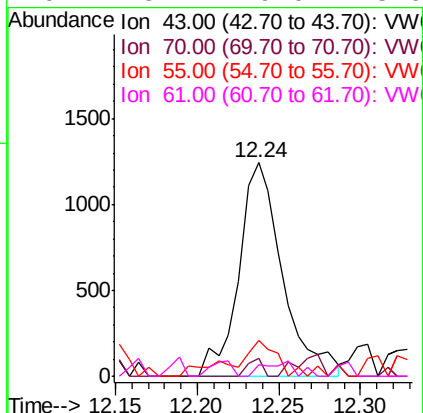
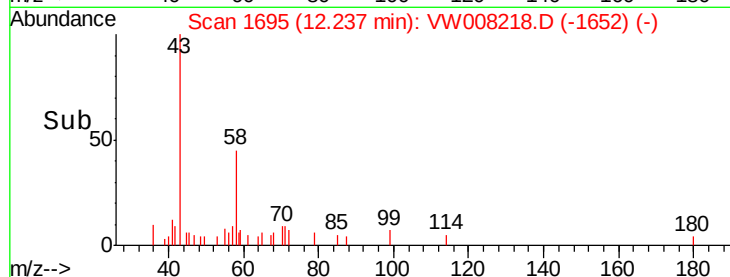
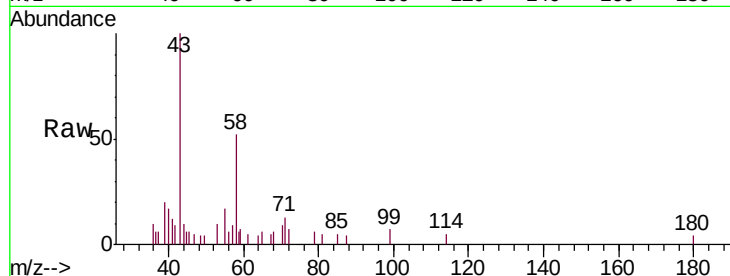




#74
N-ethyl acetate
Concen: 2.072 ug/l
RT: 12.24 min Scan# 1695
Delta R.T. -0.04 min
Lab File: VW008218.D
Acq: 12 Jan 2019 04:02

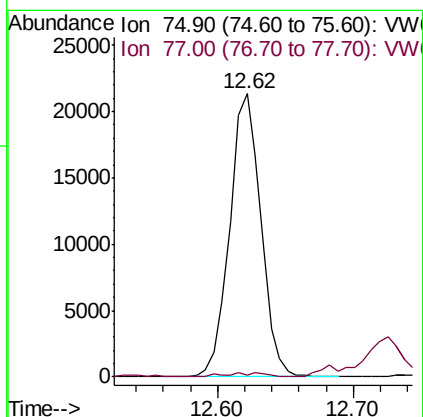
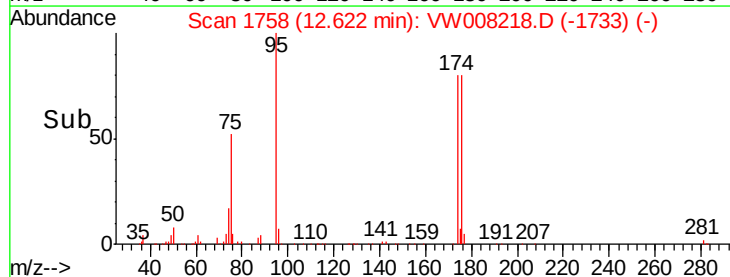
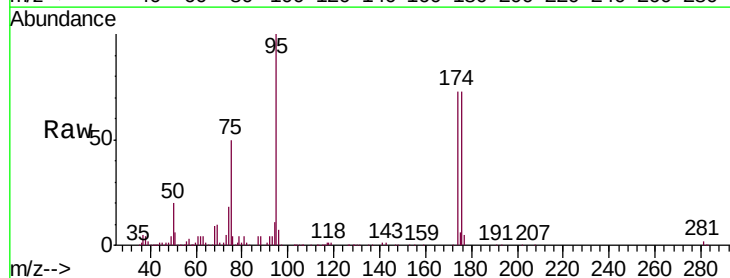
Instrument :
MSVOA_W
ClientSampled :
ER-SOIL

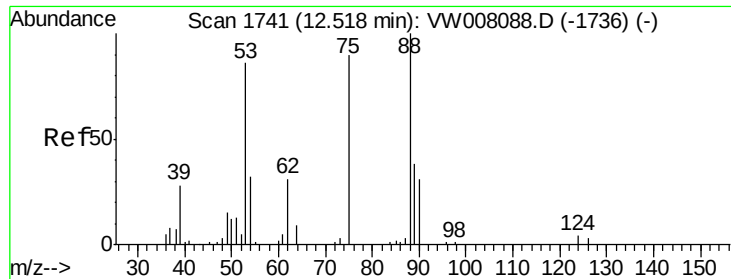
Tgt Ion: 43 Resp: 2329
Ion Ratio Lower Upper
43 100
70 2.8 32.4 48.6#
55 0.0 18.7 28.1#
61 5.1 19.0 28.6#



#76
1,2,3-Trichloropropane
Concen: 57.611 ug/l
RT: 12.62 min Scan# 1758
Delta R.T. -0.15 min
Lab File: VW008218.D
Acq: 12 Jan 2019 04:02

Tgt Ion: 75 Resp: 33958
Ion Ratio Lower Upper
75 100
77 0.0 179.4 538.2#





#81

trans-1,4-Dichloro-2-butene

Concen: 6.598 ug/l

RT: 12.47 min Scan# 1733

Delta R.T. -0.05 min

Lab File: VW008218.D

Acq: 12 Jan 2019 04:02

Instrument :

MSVOA_W

ClientSampleId :

ER-SOIL

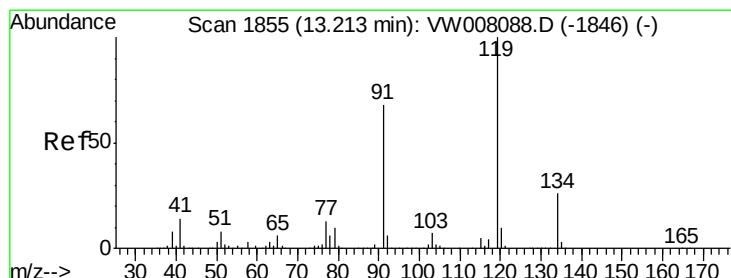
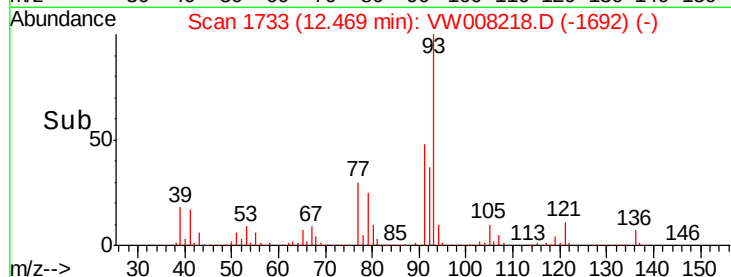
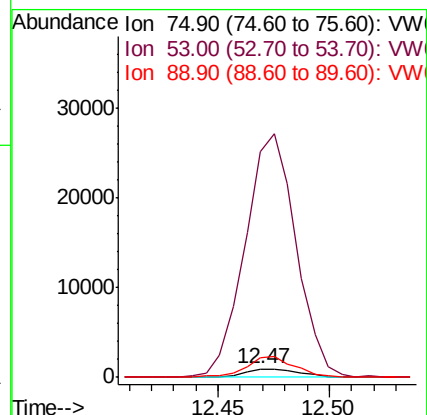
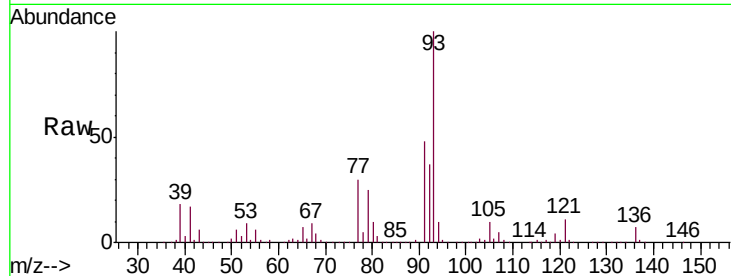
Tgt Ion: 75 Resp: 1670

Ion Ratio Lower Upper

75 100

53 2598.9 78.8 118.2#

89 215.1 35.4 53.2#



#83

tert-Butylbenzene

Concen: 1.182 ug/l

RT: 12.98 min Scan# 1816

Delta R.T. -0.24 min

Lab File: VW008218.D

Acq: 12 Jan 2019 04:02

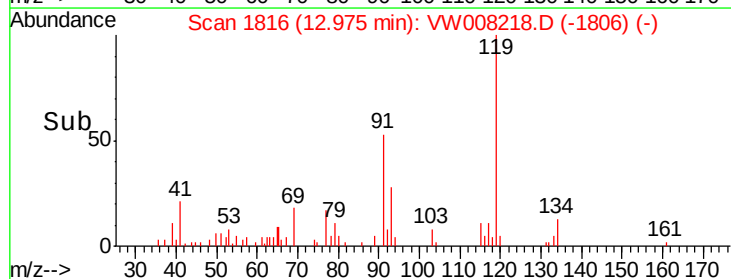
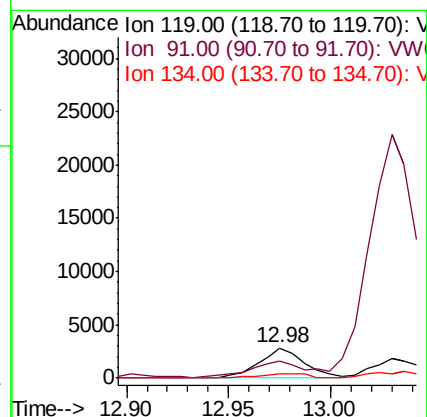
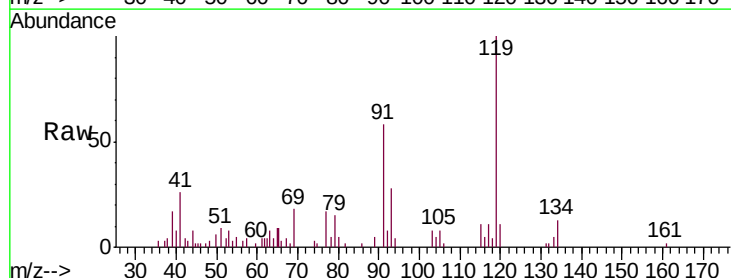
Tgt Ion: 119 Resp: 4361

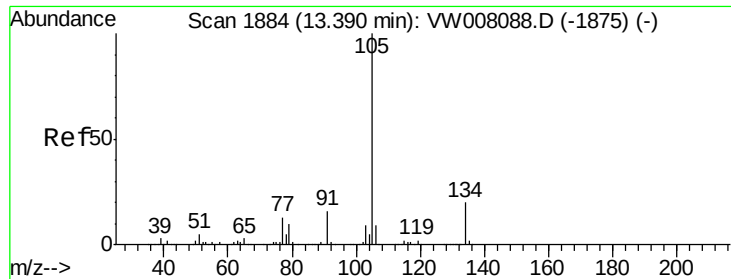
Ion Ratio Lower Upper

119 100

91 61.7 33.9 101.6

134 14.5 13.6 40.8

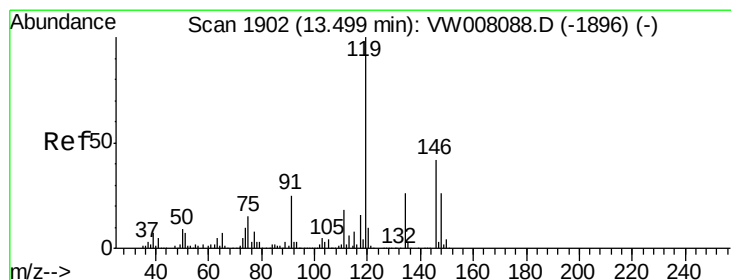
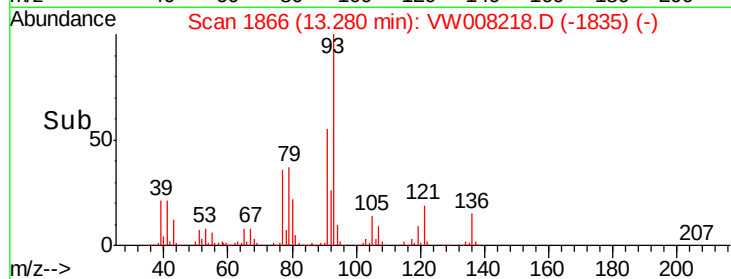
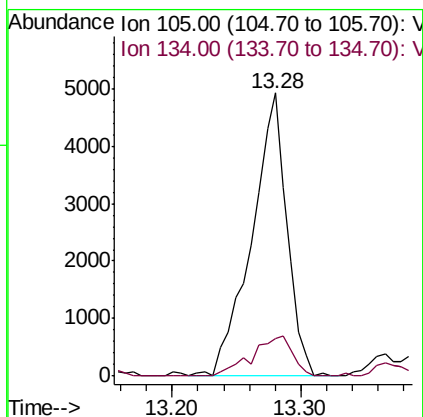
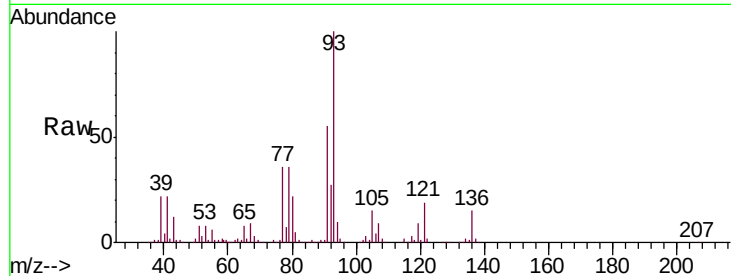




#85
 sec-Butylbenzene
 Concen: 1.727 ug/l
 RT: 13.28 min Scan# 1866
 Delta R.T. -0.11 min
 Lab File: VW008218.D
 Acq: 12 Jan 2019 04:02

Instrument :
 MSVOA_W
 ClientSampled :
 ER-SOIL

Tgt Ion:105 Resp: 9337
 Ion Ratio Lower Upper
 105 100
 134 16.2 10.1 30.1



#86
 p-Isopropyltoluene
 Concen: 10.025 ug/l
 RT: 13.50 min Scan# 1902
 Delta R.T. 0.00 min
 Lab File: VW008218.D
 Acq: 12 Jan 2019 04:02

Tgt Ion:119 Resp: 46799
 Ion Ratio Lower Upper
 119 100
 134 27.5 13.3 39.8
 91 0.0 12.3 36.9#

